

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PC03003-LG	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/KR03/00683	International filing date (day/month/year) 04 APRIL 2003 (04.04.2003)	(Earliest) Priority Date (day/month/year) 08 APRIL 2002 (08.04.2002)
Applicant LG LIFE SCIENCES LTD. et al		

This International search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 3 sheets.

☐ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
- ☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing:
- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (See Box II).

4. With regard to the **title**,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- ☒ the text is approved as submitted by the applicant.
- ☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawing** to be published with the abstract is Figure No. none

- ☐ as suggested by the applicant.
- ☐ because the applicant failed to suggest a figure.
- ☐ because this figure better characterizes the invention.
- ☒ None of the figures.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR03/00683**A. CLASSIFICATION OF SUBJECT MATTER****IPC7 C07D 471/04**

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7 C07D 471/04, A61K 31/47, C07D 207/22

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
stn on line. pubmed on line**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5869670 A (LG Chemica Ltd.) 9 Feb. 1999 see the whole document	1
A	WO 98/42705 A1 (LG Chemica Ltd.) 01 Oct. 1998 see the whole document	1
A	WO 2001/018002 A1 (Sb Pharmco Puerto Rico Inc. et al.) 15 Mar. 2001 see pages 1-2	1
A	WO 99/44991 A1 (LG Chemica Ltd.) 10 Sep. 1999 see pages 10-14	1
A	Graul, A et al. 'Fluoronaphthyridinecarboxylic acid antibacterial'; In Drugs of the Future (1998), 23(11), 1199-1204	1

☐ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

22 AUGUST 2003 (22.08.2003)

Date of mailing of the international search report

25 AUGUST 2003 (25.08.2003)

Name and mailing address of the ISA/KR

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR03/00683

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2001/018002 A1	15/03/2001	BR 2000013751 A EP 1214321 A1 JP 2003/508532 T2 GB 1999/20917 A	07/05/2002 19/06/2002 04/03/2003 03/09/1999
WO 99/44991 A1	10/09/1999	ZA 9901663 A TW 453993 B CA 2322540 AA AU 9926433 A1 AU 742497 B2 EP 1068182 A1 JP 3374155 B2 NZ 506312 A NO 2000004288 A US 6307059 B1	06/09/1999 11/09/2001 10/09/1999 20/09/1999 03/01/2002 17/01/2001 04/02/2003 26/04/2002 25/10/2000 23/10/2001
US 5869670 A	09/02/1999	KR 131999 B1 CN 1114959 A CN 1058010 B US 5633262 A RU 2120940 C1 US 5776944 A US 5962468 A	17/04/1998 17/01/1996 01/11/2000 27/05/1997 27/10/1998 07/07/1998 05/10/1999
WO 98/42705 A1	01/10/1998	ZA 9802335 A AU 9866366 A1 AU 726634 B2 EP 981527 A1 EP 981527 B1 NZ 337748 A CZ 288673 B6 EP 1179533 A2	23/11/1999 20/10/1998 16/11/2000 01/03/2000 07/05/2003 30/03/2001 15/08/2001 13/02/2002